In re Patent Application of:

RIVES ET AL

Serial No. 09/771,370 Filed: JANUARY 26, 2001

In the Claims:

1. (previously amended) A method of providing digital communications between a first site and a second site remote from said first site comprising the steps of:

- (a) transporting digital communication signals sourced from first digital communication equipment installed at said first site over a first wireline communication link that also conveys electrical power for wireline digital communication equipment coupled thereto;
- (b) providing a first wireless communication device at a third site remote with respect to said first and second sites;
- (c) coupling said first wireless communication device to said first wireline communication link so as to extract electrical power for operating said first wireless communication device from electrical power conveyed over said first wireline communication link, and enable said digital communication signals to be wirelessly transmitted by said wireless communication device for delivery to said second site;
- (d) providing a second wireless communication device at a fourth site remote with respect to said third site; and
- (e) coupling a second wireline communication link, that conveys electrical power for wireless digital communication equipment coupled thereto and transports digital communication signals thereover, to said second wireless communication device at said fourth site and to digital communication equipment installed at said second site, so as to provide electrical power for operating said second wireless communication device and enable said digital communication signals to be received by said second wireless communication device and forwarded over said second wireline communication link to said digital communication equipment installed at said second site.

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2 (previously cancelled)

- 3. (original) The method according to claim 1, wherein said first wireless communication device comprises a digital radio that is operative to interface T1 rate digital telecommunication signals with said first wireline communication link, and to wirelessly transmit and receive RF energy containing said T1 rate digital telecommunication signals.
- 4. (original) The method according to claim 1, wherein said first wireless communication device includes:
- a line interface coupled to said first wireline communication link, and being operative to extract power therefrom and interface digital telecommunication signals transported thereover;
- a wireless transceiver, coupled to said line interface and being configured to wirelessly transmit and receive RF energy containing said digital telecommunication signals; and a DC-DC voltage converter coupled to said line interface and being operative to convert power extracted thereby to voltages necessary to operate said wireless transceiver.
- 5. (previously amended) The method according to claim 4, wherein said digital communication signals comprise T1 digital communication signals, said line interface includes a T1 framer, and wherein said wireless transceiver includes a transmitter unit that is configured to perform modulation and up-conversion to RF of baseband T1 digital communication signals provided by said T1 framer, and a receiver unit that is configured to perform RF to baseband down-conversion and demodulation of RF energy received thereby and containing T1 digital communication signals for application to said T1 framer.

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6-7 (cancel)

8-9 (previously cancelled)

- 10. (previously amended) A system for providing digital communications between a first site and a second site remote from said first site comprising:
- a first wireline communication link adapted to transport digital communication signals sourced from first digital communication equipment installed at said first site and convey electrical power for wireline digital communication equipment coupled thereto; and
- a first wireless communication device located at a third site remote with respect to said first and second sites, and being operative to extract electrical power for its operation from said first wireline communication link and to wirelessly transmit said digital communication signals for delivery to said second site, wherein

said first wireless communication device includes

- a line interface coupled to said first wireline communication link, and being operative to extract power therefrom and interface digital telecommunication signals transported thereover;
- a wireless transceiver, coupled to said line interface and being configured to wirelessly transmit and receive RF energy containing said digital telecommunication signals; and
- a DC-DC voltage converter coupled to said line interface and being operative to convert power extracted thereby to voltages necessary to operate said wireless transceiver, wherein

said digital communication signals comprise T1 digital communication signals, said line interface includes a T1 framer, and wherein said wireless transceiver includes a transmitter unit that is configured to perform modulation and up-conversion to RF

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of baseband T1 digital communication signals provided by said T1 framer, and a receiver unit that is configured to perform RF to baseband down-conversion and demodulation of RF energy received thereby and containing T1 digital communication signals for application to said T1 framer.

11. (original) The system according to claim 10, wherein said first wireless communication device comprises a digital radio that is operative to interface T1 rate digital telecommunication signals with said first wireline communication link, and to wirelessly transmit and receive RF energy containing said T1 rate digital telecommunication signals.

12-13 (previously cancelled)

- 14. (previously amended) A system for providing digital communications between a first site and a second site remote from said first site comprising:
- a first wireline communication link adapted to transport digital communication signals sourced from first digital communication equipment installed at said first site and convey electrical power for wireline digital communication equipment coupled thereto; and
- a first wireless communication device located at a third site remote with respect to said first and second sites, and being operative to extract electrical power for its operation from said first wireline communication link and to wirelessly transmit said digital communication signals for delivery to said second site, further comprising
- a second wireless communication device at a fourth site remote with respect to said third site; and
- a second wireline communication link, that conveys electrical power for wireless digital communication equipment

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coupled thereto and transports digital communication signals thereover, coupled to said second wireless communication device at said fourth site and to digital communication equipment installed at said second site, so as to provide electrical power for operating said second wireless communication device and enable said digital communication signals to be received by said second wireless communication device and forwarded over said second wireline communication link to said digital communication equipment installed at said second site.